

第 I 欄 報告の基礎

1. この国際予備審査報告は、下記に示す場合を除くほか、国際出願の言語を基礎とした。

☐ この報告は、_____ 語による翻訳文を基礎とした。

それは、次の目的で提出された翻訳文の言語である。

- ☐ PCT 規則 12.3 及び 23.1(b) にいう国際調査
☐ PCT 規則 12.4 にいう国際公開
☐ PCT 規則 55.2 又は 55.3 にいう国際予備審査

2. この報告は下記の出願書類を基礎とした。(法第 6 条 (PCT 14 条) の規定に基づく命令に応答するために提出された差替え用紙は、この報告において「出願時」とし、この報告に添付していない。)

☒ 出願時の国際出願書類

☐ 明細書

第 _____ ページ、出願時に提出されたもの

第 _____ ページ*、_____ 付けて国際予備審査機関が受理したもの

第 _____ ページ*、_____ 付けて国際予備審査機関が受理したもの

☐ 請求の範囲

第 _____ 項、出願時に提出されたもの

第 _____ 項*、PCT 19 条の規定に基づき補正されたもの

第 _____ 項*、_____ 付けて国際予備審査機関が受理したもの

第 _____ 項*、_____ 付けて国際予備審査機関が受理したもの

☐ 図面

第 _____ ページ/図、出願時に提出されたもの

第 _____ ページ/図*、_____ 付けて国際予備審査機関が受理したもの

第 _____ ページ/図*、_____ 付けて国際予備審査機関が受理したもの

☐ 配列表又は関連するテーブル

配列表に関する補充欄を参照すること。

3. ☐ 補正により、下記の書類が削除された。

☐ 明細書 第 _____ ページ

☐ 請求の範囲 第 _____ 項

☐ 図面 第 _____ ページ/図

☐ 配列表 (具体的に記載すること)

☐ 配列表に関連するテーブル (具体的に記載すること) _____

4. ☐ この報告は、補充欄に示したように、この報告に添付されかつ以下に示した補正が出願時における開示の範囲を超えてされたものと認められるので、その補正がされなかったものとして作成した。(PCT 規則 70.2(c))

☐ 明細書 第 _____ ページ

☐ 請求の範囲 第 _____ 項

☐ 図面 第 _____ ページ/図

☐ 配列表 (具体的に記載すること)

☐ 配列表に関連するテーブル (具体的に記載すること) _____

* 4. に該当する場合、その用紙に "superseded" と記入されることがある。

第V欄 新規性、進歩性又は産業上の利用可能性についての法第12条(PCT35条(2))に定める見解、
それを裏付ける文献及び説明

1. 見解

新規性 (N)	請求の範囲	1-10	有 無
	請求の範囲		
進歩性 (IS)	請求の範囲		有 無
	請求の範囲	1-10	
産業上の利用可能性 (IA)	請求の範囲	1-10	有 無
	請求の範囲		

2. 文献及び説明 (PCT規則70.7)

- 文献1: JP 10-150090 A (大日本スクリーン製造株式会社) 1998.06.02, 段落 [0003] - [0013], [0021] - [0034]
 文献2: US 5932014 A (FUJITSU LIMITED) 1999.08.03, 第2欄第9-23行, 第5欄第5行-第8欄第14行, & JP 7-122612 A, 段落 [0007], [0008], [0019] - [0035]
 文献3: JP 11-26548 A (住友精密工業株式会社) 1999.01.29, 段落 [0053], [0054], [0061] - [0073]
 文献4: EP 1152456 A2 (APPLIED MATERIALS, INC) 2001.11.07, 段落 [0012] - [0021], & JP 2002-110761 A, 段落 [0011] - [0021]
 文献5: JP 3-19252 A (アプライド マテリアルズ インコーポレーテッド) 1991.01.28, 第6ページ右上欄第11行-第7ページ右下欄第8行, & EP 398365 A2, 第4欄第46行-第7欄第3行

(1) 請求の範囲1について

この発明は、国際調査報告で引用された文献1, 2から進歩性を有しない。
 文献1記載のように、基板の状態に応じて使い分ける2つのピックを有する搬送機構は周知のものであるから、当該周知の構成を文献2記載の特定の処理室に対応してピックを使い分ける搬送方法に適用して、特定の処理室への搬送前とそれ以後の搬送工程に対応する2つのピックを有する搬送機構としたことは当業者の容易に想到しえたことである。

(2) 請求の範囲2, 3について

この発明は、国際調査報告で引用された文献1-3から進歩性を有しない。
 文献3には、特定の処理工程に対応して被処理体を保持するバッファ機構が記載されている。

(3) 請求の範囲4-10について

この発明は、国際調査報告で引用された文献1-4および新たに引用した文献5から進歩性を有しない。
 文献4には、一方のピックを用いる複数の処理室への搬送工程と他方のピックを用いる複数の処理室への搬送工程とを組み合わせた搬送方法が記載されている。
 また、文献5記載のように、共通搬送室を有する複数の真空処理装置を連結するパス部は周知のものである。

Translation

PATENT COOPERATION TREATY

PCT/JP2003/012006



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 143929-043	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/012006	International filing date (day/month/year) 19 September 2003 (19.09.2003)	Priority date (day/month/year) 25 September 2002 (25.09.2002)
International Patent Classification (IPC) or national classification and IPC H01L 21/68, B65G 49/07, H01L 21/205, 21/285		
Applicant TOKYO ELECTRON LIMITED		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☐ (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:

☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input type="checkbox"/> Box No. VIII	Certain observations on the international application

Date of submission of the demand 02 April 2004 (02.04.2004)	Date of completion of this report 13 October 2004 (13.10.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

national application No.

PCT/JP2003/012006

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ The international application as originally filed/furnished
- ☐ the description:
- pages _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- pages _____, as originally filed/furnished
- pages* _____, as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-10	NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

- Document 1: JP, 10-150090, A (Dainippon Screen MFG. Co., Ltd.), June 2, 1998 (06.02.98), Paragraphs 0003-0013 and 0021-0034
- Document 2: US, 5932014, A (Fujitsu Limited), August 3, 1999 (08.03.99), Column 2, lines 9-23 and Column 5, lines-5-8 & JP, 7-122612, A, Paragraphs 0007, 0008 and 0019-0035
- Document 3: JP, 11-26548, A (Sumitomo Precision Products Co., Ltd.), January 29, 1999 (01.29.99), Paragraphs 0053, 0054 and 0061-0073
- Document 4: EP, 1152456, A2 (Applied Materials, Inc.), November 7, 2001 (11.07.01), Paragraphs 0012-0021 & JP, 2002-110761, A, Paragraphs 0011-0021
- Document 5: JP, 3-19252, A (Applied Materials, Inc.), January 28, 1991 (01.28.91), Page 6, upper right column, line 11-Page 7, lower right column, line 8, & EP, 398365, A2, Column 4, line 46-Column 7, line 3

(1) Regarding claim 1

This invention does not appear to involve an inventive step based on documents 1 and 2 cited in the ISR.

As described in document 1, a carrying mechanism comprising two picks wherein which pick is used depends on a state of a substrate is well known; therefore, employing such a well-known configuration in the carrying method described in document 2 wherein which pick is used is determined in accordance with a specific process chamber, and configuring a carrying mechanism comprising a pick for a carrying step for prior to carrying to a specific process chamber and a pick for a carrying step after carrying to a specific process chamber could be easily conceived of by a party skilled in the art.

(2) Regarding claims 2 and 3

This invention does not appear to involve an inventive step based on documents 1-3 cited in the ISR.

Document 3 describes a buffer mechanism for holding a processing object for a specific processing step.

(3) Regarding claims 4-10

This invention does not appear to involve an inventive step based on documents 1-4 cited in the ISR and newly cited document 5.

Document 4 describes a carrying method combining a step for carrying to a plurality of process chambers using one pick and a step for carrying to a plurality of process chambers using the other pick.

Further, as can be seen in document 5, a path connecting a plurality of vacuum processors comprising a common carrying chamber is well known.